Radiology Compliance Branch

RADIATION PROTECTION SECTION



Division of Health Service Regulation • N.C. Department of Health and Human Services

COMPUTED TOMOGRAPHY INSPECTION CHECKLIST 10A NCAC 15 .0611 Computed Tomography (CT) X-Ray Systems New Requirements as of 10-1-17

The uses of Cone Beam CT, Veterinary CT, CT Simulation and CT attenuation correction are exempt from the requirements of this Rule and should reference the "Medical Inspection Checklist," found at

http://www.ncradiation.net/Xray/documents/medicalinspcklist.pdf.

Registrants that ARE required to comply with the .0611 Rule can be found in [.0611 (a)] Definitions can be found in [.0611 (b)]

Required for Inspection

| All applicable items on the general Medical Inspection Checklist | |
|--|---------------------------------|
| Systems required to meet requirements of 21 CFR 1020.33 | |
| Aural communication capabilities [.0611 (c)] | (-)1 |
| Operator training documentation [.0611 (d)] | |
| System performance evaluations and documentation of [.06: | 11 (e)] |
| Performed by CT Qualified Expert (CT QE), or under gene | · /- |
| performed within 30 days of installation and at least ever | |
| Performance evaluation standards and tolerances met [.0] | |
| Performance evaluation to include specific requirements | ` '- |
| Output performed with an appropriately calibrated dosim | |
| Performance evaluation is to be maintained for inspection | |
| Routine quality control (QC) program and documentation of | |
| Development and/or approval of by CTQE [.0611 (f)] | [.0011 (1)] |
| Program requirements [.0611 (f)] | |
| Routine QC documented and records retained for 14 mon | ths [.0611 (f)] |
| Operating requirements [.0611 (g)] | (1) |
| Required information to be accessible to operators [.061] | l (a)] |
| Required information to be decessible to operators [1001] | - (9/) |
| Recommended to Include in Written Safety Procedures | |
| Initiating any changes in CT protocols | |
| ☐ Initiating any changes in CT protocols | |
| Permanently recording patient doses Radiologist and dose committee review of CTDI_{vol} in potentia | lly high does CT procedures |
| Facility identification of CTDI _{vol} in excess of recommended le | |
| (E.g. facility alert level in place and/or dose tracking in place | |
| Reporting adverse events associated with CT overexposure | =) |
| (E.g. reporting requirements to the FDA) MedWatch How To R | apart Sarious Problems to EDA |
| Calibration and maintenance records [21CFR1020.30] | eport Serious Froblems to TDA |
| Protocol manual that includes the technical factors and the n | navimum dose |
| (Projected CTDIvol values or equivalent for each type of study per | |
| | Inspection Checklist CT Equipme |
| 1645 Mail Service Center - Raleigh North Carolina 27699-1600 | |

1645 Mail Service Center - Raleigh, North Carolina 27699-1600 Phone: (919) 814-2250 Inspection Checklist CT Equipment Rev: 1-17-18

Visit our website www.ncradiation.net

Additional Recommended Items

FDA, CRCPD, The Joint Commission, AAPM, and ACR recommended practices.

| ☐ Annual Physics Reports Performance Monitoring of Diagnostic CT Equipment |
|--|
| 2012 ACR Technical Standard of Diagnostic Medical Physics Performance Monitoring of CT Equipment |
| Facility accreditation documentation, if applicable |
| |
| CMS Advanced Diagnostic Imaging Accreditation. |
| CT Dose Management Committee established CRCPD CT Dose Management Trifold |
| ☐ Patient Safety Program established (TJC Facilities) |
| Education and radiation dose in imaging departments The Joint Commission Sentinel Event Alert |
| ☐ Protocols password protected or software modifications in place |
| ■ "Notification" and/or "alert" values in place on scanners |
| NEMA XR 25 CT Dose-Check Standard AAPM Recommendation Notification and Alert Levels Statemen |
| Facility participates in the ACR Dose Index Registry ACR Dose Index Registry |
| ☐ Additional guidance: |
| FDA Initiative to Reduce Unnecessary Radiation Exposure from Medical Imaging |
| Image Gently; "Think A Head Campaign" |
| Image Wisely |

Inspection Checklist CT Equipment